

CLAIMS

- 1 Thermoplastic polyester compositions comprising, by weight:
- (i) a thermoplastic polyester;
- 5 (ii) an impact modifier comprising:
- (a) a core-shell copolymer (A);
- (b) an ethylene copolymer (B) ^{Selected} ~~chosen~~ from ethylene-unsaturated carboxylic acid anhydride copolymers (B1), ethylene-unsaturated epoxide copolymers (B2) and blends thereof;
- 10 (iii) the (B)/(A) ratio being between 40/60 and 10/90 for proportions of impact modifier between 18 and 40% in 82 to 60% of polyester, respectively;
- (iv) the (B)/(A) ratio being between 40/60 and 25/75 for proportions of impact modifier between 2 and 18% in 98 to 82% of polyester, respectively,
- 15 and advantageously between 5 and 18% in 95 to 82% of polyester respectively.

- 20 2 Compositions according to Claim 1, ^{wherein} ~~in which~~ the polyester is ^{Selected} ~~chosen~~ from PET and PBT.

- 3 Compositions according to Claim 1 ~~or 2~~, comprising up to 30 parts by weight of copolyetherester per 100 parts of thermoplastic polyester.

- 25 4 Compositions according to ^{Claim 1} ~~any one of the preceding claims~~, comprising up to 30 parts by weight of polycarbonate per 100 parts of thermoplastic polyester.

- 30 5 Compositions according to ^{Claim 1} ~~any one of the preceding claims~~, in which the copolymer (A) comprises an elastomer core and at least one thermoplastic shell.

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6 Compositions according to ~~any one of the preceding claims~~ ^{Claim 1}, in which the copolymers (B1) are ethylene-alkyl (meth)acrylate-maleic anhydride copolymers which comprise from 0.2 to 10% by weight of maleic anhydride and from 0 to 40%, ~~preferably 5 to 40%~~, by weight of alkyl (meth)acrylate.

7 Compositions according to ~~any one of Claims 1 to 5~~ ^{Claim 1}, in which the ethylene-unsaturated epoxide copolymers (B2) are ethylene-alkyl (meth)acrylate-unsaturated epoxide copolymers obtained by copolymerization of the monomers and contain from 0 to 40% by weight of alkyl (meth)acrylate and up to 10% by weight of unsaturated epoxide.

8 Compositions according to ~~any one of the preceding claims~~ ^{Claim 1}, comprising, per 100 parts by weight, 75 to 95 parts of polyester for 25 to 5 parts of impact modifier, respectively.

9 Compositions according to ~~any one of the preceding claims~~ ^{Claim 1}, in which the proportions of (A) and (B) are ~~such~~ that the (B)/(A) ratio is between 40/60 and 25/75, whatever the amount of impact modifier in the polyester.

10 Impact-modifier compositions comprising:

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25 (a) a core-shell copolymer (A);
(b) an ethylene copolymer (B) ^{Selected} ~~chosen~~ from ethylene-unsaturated carboxylic acid anhydride copolymers (B1), ethylene-unsaturated epoxide copolymers (B2) and blends thereof;
- the (B)/(A) ratio being between 40/60 and 10/90 for proportions of impact modifier between 18 and 40% in 82 to 60% of polyester, respectively,
 - the (B)/(A) ratio being between 40/60 and 25/75 for proportions of impact modifier between 2 and 18% in 98 to 82% of polyester, respectively, and advantageously between 5 and 18% in 95 to 82% of polyester, respectively.

Add A3

Add B2

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